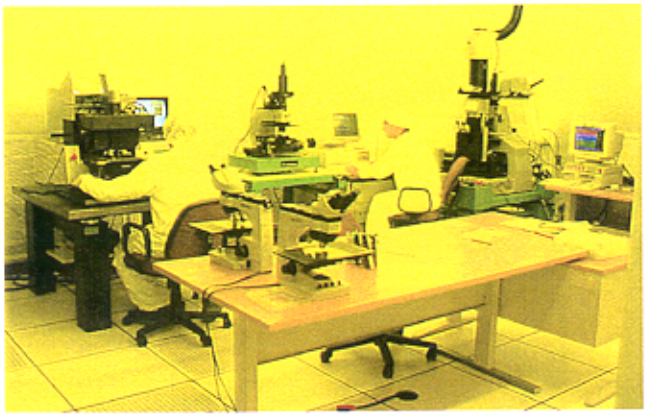
Weapons Sciences Directorate

CORE CAPABILITIES

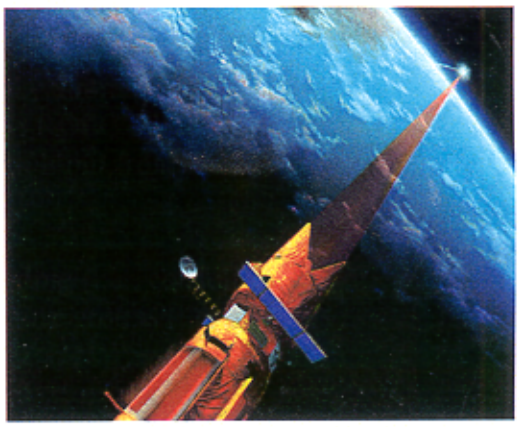
MicroElectroMechanical Systems	Photonic Band Gap Materials
Optics/Electro-optics	Integrated Photonics
Optical Computing	Quantum Mechanics
Directed Energy	Engineering/Physics

Micro-Fabrication Facility



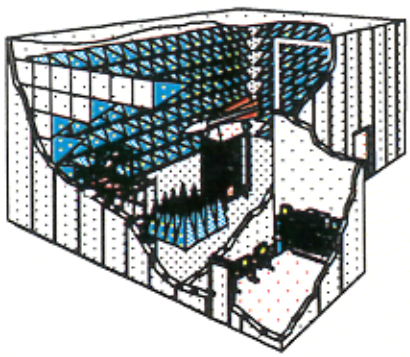
The Weapons Sciences Micro-Fabrication Facility includes class 100 & 1000 clean-rooms and houses a variety of equipment used to make Diffractive Optics, MicroElectro-Mechanical Systems, and Integrated Optics.

Directed Energy Weapons



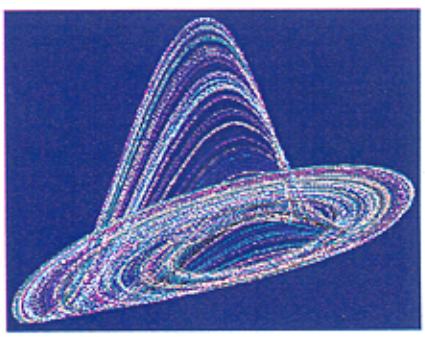
Directed Energy Weapons offer the potential of a "speed of light" weapon for anti-missile applications. The Directorate is involved in various technology development programs for tactical and strategic applications.

Anechoic RF Test Chamber



The chamber is 114 feet long, 26 feet high, and 43 feet wide. The chamber is used for characterization tests of military systems, including communications gear, tanks, radar, missiles, and helicopters.

Basic Research



The Weapons Sciences is involved in various basic research to include chaos control, photonic band gap materials, hyperspectral data analysis, optical interconnects, optical correlators, and optical computers.